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Lukas Geyer* (geyer@math.montana.edu), Montana State University, Department of Mathematical Sciences, P.O. Box 172400, Bozeman, MT 59717. *Thermodynamic formalism for Siegel disks*. Preliminary report.

We study geometric measures and Hausdorff dimension for polynomials with Siegel disks. The Hausdorff dimension of the boundary of the quadratic golden mean Siegel disk is characterized in terms of conformal measures and point pressure functions. This is joint work with Michel Zinsmeister (University of Orleans). (Received February 12, 2008)